

ABSTRACT

An imaging device including a plurality of electron sensing elements for receiving energy from an electron energy source is provided. Each of the electron sensing elements includes at least one respective charge collection element configured to receive and store energy from the respective
5 energy sensing element. The imaging device also includes a plurality of switching elements positioned between respective ones of the plurality of energy sensing elements. The imaging device is configured to collect energy received by at least two of the plurality of energy sensing elements in the at
10 least one respective charge collection element of one of the at least two of the plurality of energy sensing elements through actuation of at least one of the switching elements.